

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application.

Listing of Claims:

1. (Currently Amended) A semen extender composition comprising:
 - (a) ~~sperm-cell-protecting amount of~~ about 0.1 wt.% to about 6 wt.% phospholipid obtained from a non-animal source;
 - (b) effective amount of surfactant to reduce ice crystal formation during freezing of the composition;
 - (c) carbohydrate; and
 - (d) biological buffer to provide a semen extender use solution having a pH of ~~between about 6.9 and~~ to about 7.5, and wherein the use solution exhibits an osmolality of about 250 mOsM to about 350 mOsM.
2. (Original) A semen extender composition according to claim 1, wherein the composition comprises at least about 90 wt.% water.
3. (Canceled)
4. (Original) A semen extender composition according to claim 1, further comprising:
 - (a) antioxidant.
5. (Original) A semen extender composition according to claim 4, wherein the antioxidant comprises at least one of vitamin E, vitamin C, vitamin A, BHA, BHT, and derivatives thereof.
6. (Original) A semen extender composition according to claim 1, wherein the source of non-animal phospholipid comprises lecithin.
7. (Canceled)

8. (Original) A semen extender composition according to claim 1, wherein the surfactant comprises at least one of an anionic surfactant, a cationic surfactant, a nonionic surfactant, an amphoteric surfactant, and a zwitterionic surfactant.
9. (Original) A semen extender composition according to claim 1, wherein the surfactant comprises at least one of sodium lauryl sulfate, sodium laureth sulfate, sorbitan esters, polyglycerol esters, glycerol esters, and mixtures thereof.
10. (Original) A semen extender composition according to claim 1, wherein the surfactant comprises polyoxyethylene sorbitan.
11. (Original) A semen extender composition according to claim 1, further comprising:
(a) freeze agent comprising at least one of glycerol and dimethylsulfoxide.
12. (Original) A semen extender composition according to claim 11, wherein the composition comprises between about 3 wt.% and about 14 wt.% of the freeze agent.
13. (Original) A semen extender composition according to claim 1, wherein the composition is substantially free of animal products.
14. (Original) A semen extender composition according to claim 1, further comprising semen.
- 15-20. (Canceled)
21. (Currently Amended) A method for manufacturing a semen extender composition, the method comprising a step of:
(a) mixing semen extender composition components to provide a semen extender composition having an osmolality of about 250 mOsM to about 350 mOsM and a pH of ~~between~~ about 6.9 ~~and~~ to about 7.5, the semen extender composition components comprising:

- (i) ~~sperm-cell-protecting amount of~~ about 0.1 wt.% to about 6 wt.%
phospholipid obtained from a non-animal source;
- (ii) effective amount of surfactant to reduce ice crystal formation during
freezing of the composition,
- (iii) carbohydrate;
- (iv) water; and
- (v) biological buffer.

22. (Original) A method according to claim 21, wherein the semen extender components further comprise a freeze agent comprising at least one of glycerol and dimethylsulfoxide.

23. (Canceled)

24. (New) A semen extender composition according to claim 1, wherein the composition comprises at least about 1 IU/ml antioxidant.

25. (New) A semen extender composition according to claim 1, wherein the composition comprises about 1 IU/ml to about 5 IU/ml antioxidant.

26. (New) A semen extender composition according to claim 1, wherein the composition comprises about 1 wt.% to about 3 wt.% antioxidant.

27. (New) A semen extender composition according to claim 1, wherein the composition comprises about 0.0001 wt.% to about 1 wt.% of the surfactant.

28. (New) A method according to claim 21, wherein the composition comprises at least about 1 IU/ml antioxidant.

29. (New) A method according to claim 21, wherein the composition comprises about 1 IU/ml to about 5 IU/ml antioxidant.

30. (New) A method according to claim 21, wherein the composition comprises about 1 wt.% to about 3 wt.% antioxidant.

31. (New) A method according to claim 29, wherein the antioxidant comprises at least one of vitamin E, vitamin C, vitamin A, BHA, BHT, and derivatives thereof.

32. (New) A method according to claim 21, wherein the composition comprises about 0.0001 wt.% to about 1 wt.% of the surfactant.

Support for Amendment

The amendment to the claims cancels non-elected claims 15-20. The Applicants reserve the right to pursue canceled claims 15-20 in a divisional patent application.

Independent claims 1 and 21 are amended to characterize the amount of phospholipid in the semen extender composition and to further characterize the phospholipid as a phospholipid obtained from a non-animal source. These changes are supported by the specification at page 5, lines 7 and 13-19. In addition, these changes are supported by canceled claims 3, 7, and 23. Independent claims 1 and 21 are additionally amended to more clearly characterize the range of pH of about 6.9 to about 7.5.

New claims 25, 26, and 28-31 are supported by the specification at page 7, lines 9-15. New claims 27 and 32 are supported by the specification at page 6, lines 20-31.

No new matter is introduced by this amendment and entry thereof is requested. Upon entry, claims 1, 2, 4-6, 8-14, 21, 22, and 24-32.